

WHAT IS CLAIMED IS:

- 1 1. An elbow stack for connecting two busway sections at an angle other
2 than 180°, the elbow stack comprising:
3 a first splice plate configured to define a first bore;
4 at least one conductor/insulator assembly configured to define a second
5 bore, with the assembly having a first connector end and a second connector end,
6 wherein one end is not parallel to the other end;
7 a second splice plate configured to defined a third bore; and
8 at least one fastener disposed within the first, second and third bores,
9 where the fastener is configured to force the conductor/insulator assembly, positioned
10 between the first and second splice plates, into contact with the busway sections.
- 1 2. The elbow stack of claim 1, wherein the conductor/insulator assembly
2 comprises, in order, a first conductor plate, a planar polygonal shaped insulator plate
3 and a second conductor plate, with each plate defining a part of the second bore.
- 1 3. The elbow stack of claim 2, including a grommet mounted in the
2 second bore, with the grommet configured with a throughbore coaxial with the second
3 bore.
- 1 4. The elbow stack of claim 1, including an insulator sleeve disposed on
2 the fastener to insulate the fastener in the plurality of bores.
- 1 5. The elbow stack of claim 1, including at least one additional
2 conductor/insulator assembly positioned between the two splice plates.
- 1 6. The elbow stack of claim 5, including a spacer positioned between
2 each conductor/insulator assembly.
- 1 7. The elbow stack of claim 1, wherein the fastener comprises a nut and
2 bolt, with a nut receptacle configured to accept the nut and prevent rotation of the nut.

1 8. The elbow stack of claim 1, including a cover configured to enclose at
2 least a portion of the elbow stack.

1 9. An elbow stack for connecting two busway sections each having a
2 different longitudinal axis, the elbow stack comprising:
3 a first splice plate configured to define a first bore;
4 at least one conductor/insulator assembly comprising, in order, a first
5 conductor plate, a planar polygonal shaped insulator plate and a second conductor
6 plate, with each plate defining a part of a second bore, with the assembly having a
7 first connector end and a second connector end, wherein one end is not parallel to the
8 other end;
9 a second splice plate configured to define a third bore; and
10 at least one fastener disposed within the first, second and third bores,
11 where the fastener is configured to force the conductor/insulator assembly, positioned
12 between the first and second splice plates, into contact with the busway sections.

1 10. The elbow stack of claim 9, including a grommet mounted in the
2 second bore, with the grommet configured with a throughbore coaxial with the second
3 bore.

1 11. The elbow stack of claim 9, including an insulator sleeve disposed on
2 the fastener to insulate the fastener in the plurality of bores.

1 12. The elbow stack of claim 9, including at least one additional
2 conductor/insulator assembly positioned between the two splice plates.

1 13. The elbow stack of claim 12, including a spacer positioned between
2 each conductor/insulator assembly.

1 14. The elbow stack of claim 9, wherein the fastener comprises a nut and
2 bolt, with a nut receptacle configured to accept the nut and prevent rotation of the nut.

1 15. The elbow stack of claim 9, including a cover configured to enclose at
2 least a portion of the elbow stack.

1 16. An elbow stack for connecting at least two phase busbars and a ground
2 busbar at an angle other than 180°, the elbow stack comprising:
3 a first splice plate configured to define a first bore;
4 at least one conductor/insulator assembly comprising, in order, a first
5 conductor plate, a planar polygonal shaped insulator plate and a second conductor
6 plate, with each plate defining a part of a second bore, with the assembly having a
7 first connector end and a second connector end, wherein one end is not parallel to the
8 other end;
9 a second splice plate configured to define a third bore;
10 at least one fastener disposed within the first, second and third bores,
11 where the fastener is configured to force the conductor/insulator assembly, positioned
12 between the first and second splice plates, into contact with the busbars;
13 a grommet mounted in the second bore, with the grommet configured
14 with a throughbore coaxial with the second bore; and
15 an insulator sleeve disposed on the fastener to insulate the fastener in
16 the plurality of bores.

1 17. The elbow stack of claim 16, including at least one additional
2 conductor/insulator assembly positioned between the two splice plates.

1 18. The elbow stack of claim 17, including a spacer positioned between
2 each conductor/insulator assembly.

1 19. The elbow stack of claim 16, wherein the fastener comprises a nut and
2 bolt, with a nut receptacle configured to accept the nut and prevent rotation of the nut.

1 20. The elbow stack of claim 16, including a cover configured to enclose
2 at least a portion of the elbow stack.